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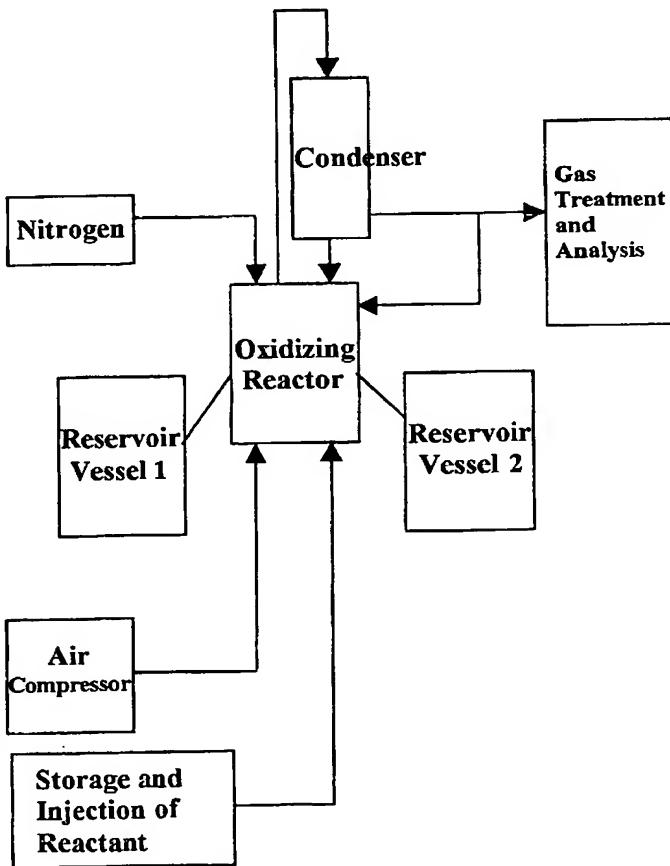
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[Continued on next page]

(54) Title: METHOD OF PRODUCING TRIMELLITIC ACID



(57) Abstract: Disclosed is a method of producing trimellitic acid through the liquid-phase oxidation of pseudocumene in acetic acid. The oxidation comprises a) conducting a first oxidation using an initial oxidizing catalytic system at 120-200°C for 5-20 min in an oxidizing reactor, said initial oxidizing catalytic system comprising at least three compounds selected from the group consisting of cobalt compound, manganese compound, zirconium compound and bromine compound; b) conducting a second oxidation in situ at 160-220°C for 30-60 min under addition of an additional catalytic system, said additional catalytic system comprising at least two compounds selected from the group consisting of cobalt compound, manganese compound, zirconium compound, and bromine compound; and c) completing the oxidation of pseudocumene at a temperature from 180 to 230°C for a time from 5 to 20 min without the addition of catalysts into the reactor. The pressure is adjusted in the range from 100 to 450 psig over the steps a), b) and c).

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC7 C07C 51/265, 51/16, 51/255, 63/307

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean patents and applications for inventions since 1975Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
CAS ONLINE(CA)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5004830 A(Amoco Corporations) 2 APR 1991 See example 1-4, table1, claim 1	1-7
X	US 4816601 A(Amoco Corporations) 28 MAR 1989 See table1, claim 1	1-7
A	EP 513835 A2(Alusuisse Italia S.p.a) 19 NOV 1992 See example 1	1-7
A	JP 56-128730 A(Mitsubishi Gas Kagaku Kk) 8 OCT 1981 See the whole pages	1-7
A	US 4786752 A(Amoco Corporations) 22 NOV 1988 See the whole pages	1-7

 Further documents are listed in the continuation of Box C. See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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INTERNATIONAL SEARCH REPORT
Information on patent family members

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